

622 Mbit/s SATURN User Network Interface

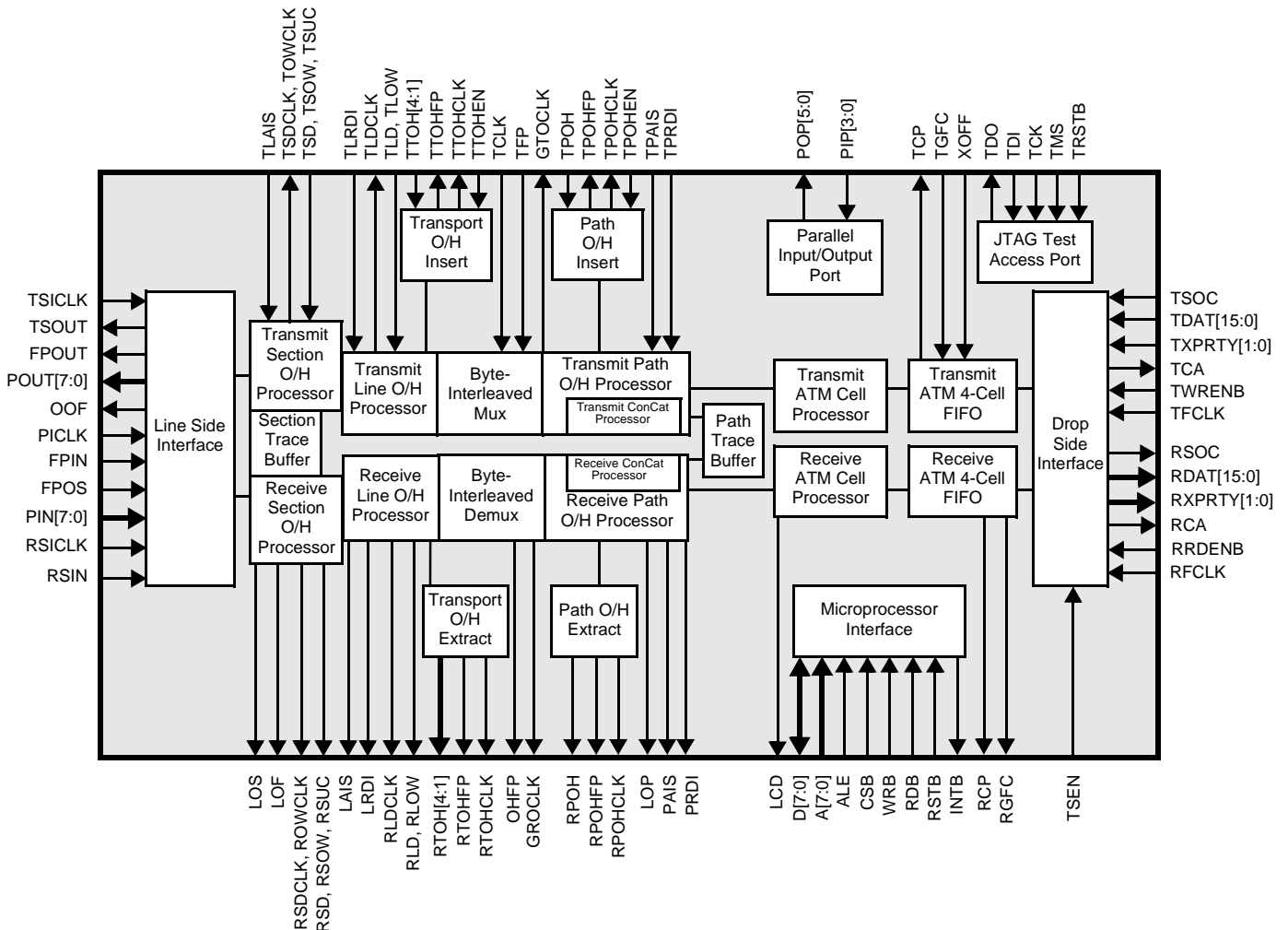
FEATURES

- Monolithic SATURN[®]-compatible SONET/SDH ATM User Network Interface (UNI) for LAN, Public UNI, and Public NNI connections.
- Implements the ATM Transmission Convergence (TC) sublayer according to ATM Forum specifications using the SONET/SDH 622.08 Mbit/s and 155.52 Mbit/s formats.
- Also supports the SONET 51.84 Mbit/s format.
- Processes all SONET/SDH UNI overhead.
- Inserts and extracts ATM payloads using ATM cell delineation.
- Provides a SCI-PHY[™]-compliant 50 MHz synchronous 16-bit (4-cell deep) FIFO buffers in both transmit and receive paths.
- Compatible with ATM Forum UTOPIA interface format, with support for multipHY applications.
- Provides access to section and line datalinks and all additional overhead to allow external processing for full SONET/SDH Network-Node Interface (NNI) compliance.
- Provides a generic 8-bit microprocessor bus interface for configuration, control, and status monitoring.
- Provides a standard 5-signal P1149.1 JTAG test port for boundary scan board test purposes.
- Provides TTL-compatible inputs and outputs.
- Low power, +5 V CMOS technology.
- Packaged in a 208-pin, 28 mm by 28 mm slugged Plastic Quad Flat Pack (PQFP) with 0.5 mm pin pitch.

APPLICATIONS

- Workstations and Personal Computer
- LAN Switches and Hubs
- Routers
- Video Servers
- Backbones
- Broadband Switching Systems
- Test Equipment

BLOCK DIAGRAM



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TYPICAL APPLICATION

MULTI-RATE 155 OR 622 Mbit/s ATM PHY

